

Installing the Natural Web Interface Server Extensions

This document describes how to install the Natural Web Interface Server Extensions for CGI Interface (product code: NWW) under the OS/390 Unix System Services.

The following topics are covered:

- Prerequisites
 - Installation Tape
 - Installation Procedure
 - Further Steps
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Prerequisites

Software

- OS/390 Operating System
Version as specified under Operating/Teleprocessing Systems Required in the current Natural Release Notes.
- EntireX
Version as specified under Natural and Other Software AG Products in the current Natural Release Notes.
- OS/390 Unix System Services with access to the OS/390 HFS (hierarchical file system).

Knowledge

Before you start installing Natural Web Interface Server Extensions under OS/390, it is important that you have a clear picture of the Natural Web Interface system architecture; see the Natural Web Interface documentation.

Installation Tape

The installation tape contains the datasets listed in the table below.

Dataset Name	Contents
NWW nnn .CPIO	Compressed NWW modules.

The notation nnn in dataset name represents the version number of the product.

Copy the tape contents to disk

(Job I008, Step 0155)

Copying the Tape Contents to Disk

If you are using System Maintenance Aid (SMA), refer to the SMA documentation (included on the current edition of the Natural documentation CD).

If you are **not** using SMA, follow the instructions below.

This section explains how to:

- Copy data set COPY.JOB from tape to disk.
- Modify this data set to conform with your local naming conventions.

The JCL in this data set is then used to copy all data sets from tape to disk.

If the datasets for more than one product are delivered on the tape, the dataset COPY.JOB contains the JCL to unload the datasets for all delivered products from the tape to your disk.

After that, you will have to perform the individual install procedure for each component.

Step 1 - Copy data set COPY.JOB from tape to disk

The data set COPY.JOB (label 2) contains the JCL to unload all other existing data sets from tape to disk. To unload COPY.JOB, use the following sample JCL:

```
//SAGTAPE JOB SAG,CLASS=1,MSGCLASS=X
//* -----
//COPY EXEC PGM=IEBGENER
//SYSUT1 DD DSN=COPY.JOB,
// DISP=(OLD,PASS),
// UNIT=(CASS,DEFER),
// VOL=(,RETAIN,SER=<Tnnnnn>),
// LABEL=(2,SL)
//SYSUT2 DD DSN=<hilev>.COPY.JOB,
// DISP=(NEW,CATLG,DELETE),
// UNIT=3390,VOL=SER=<vvvvvv>,
// SPACE=(TRK,(1,1),RLSE),
// DCB=*.SYSUT1
//SYSPRINT DD SYSOUT=*
//SYSIN DD DUMMY
//
```

Where:

- <hilev> is a valid high level qualifier
- <Tnnnnn> is the tape number
- <vvvvvv> is the desired volser

Step 2 - Modify COPYTAPE.JOB

Modify the COPYTAPE.JOB to conform with your local naming conventions and set the disk space parameters before submitting this job:

- Set HILEV to a valid high level qualifier.
- Set LOCATION to a storage location.
- Set EXPDT to a valid expiration date.

Step 3 - Submit COPY.JOB

Submit COPY.JOB to unload all other data sets from the tape to your disk.

Installation Procedure

Step 1: Create directory file structure in HFS

(Job I009, Step 0150)

Create the following directories in your OS/390 HFS (hierarchy file system):

```
$SAG/nat
  $SAG/nat/vnnn
```

The following is an example of how to do this:

```
cd $sag
mkdir nat
cd nat
mkdir vnnn
```

The directory names must be in lower case.

nnn = Current version of natural

Step 2: Copy the dataset into your OS/390 HFS

(Job I009, Step 0155)

If you are not using SMA:

Copy the job dataset NWW*nnn*.CPIO from disk to HFS using the sample JCL below.

```
//PASS0155 EXEC PGM=IKJEFT01
//SYSTSPRT DD DUMMY
//JES DD SYSOUT=*,DCB=(RECFM=V,LRECL=256)
//STDOUT DD PATH='/tmp/out',
// PATHOPTS=(OCREAT,OTRUNC,OWRONLY),PATHMODE=SIRWXU
//STDERR DD PATH='/tmp/err',
// PATHOPTS=(OCREAT,OTRUNC,OWRONLY),PATHMODE=SIRWXU
//SYSTSIN DD *
  OPUT 'SAGLIB.NWWnnn.MVSCPIO' +
    '/u/nat/aze/products/sag/nat/vnnn/NWWvnnn.cpio.z' +
  BIN
/*
```

Step 3: Uncompress the file on your OS/390 HFS

(Job I009, Step 0157)

If you are not using SMA:

Logon to your HFS and enter the following commands:

```
cd $sag/nat/vnnn
uncompress NWWvnnn.cpio.z
cpio -icvBd > NWWvnnn.cpio
```

Note:

If the message "EDC5139I Operation not permitted" occurs, it can be ignored.

Further Steps

For further information, refer to the Natural Web Interface documentation and proceed as described in the section Configuring the Natural Web Interface, paying particular attention to the notes given under the heading "In an OS/390 Unix System Services Environment".